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1 [Scheduling multithreaded computations by work stealing](#)



Robert D. Blumofe, Charles E. Leiserson

September 1999 Journal of the ACM (JACM), Volume 46 Issue 5

Publisher: ACM

Full text available: [pdf\(275.08 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
[index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 214, Citation Count: 22

This paper studies the problem of efficiently scheduling fully strict (i.e., well-structured) multithreaded computations on parallel computers. A popular and practical method of scheduling this kind of dynamic MIMD-style computation is "work stealing," ...

Keyw ords: critical-path length, multiprocessor, multithreading, randomized algorithm, thread scheduling, work stealing

2 [Communication optimizations for parallel computing using data access](#)



[information](#)

Martin C. Rinard

December 1995 Supercomputing '95: Proceedings of the 1995 ACM/ IEEE conference on Supercomputing (CDROM) - Volume 00, Volume 00

Publisher: ACM

Full text available: [html\(87.34 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 12, Citation Count: 3

Given the large communication overheads characteristic of modern parallel machines, optimizations that eliminate, hide or parallelize communication may improve the performance of parallel computations. This paper describes our experience automatically ...

3 [Parallelizing a high accuracy hardware-assisted volume renderer for meshes with arbitrary polyhedra](#)

Janine Bennett, Richard Cook, Nelson Max, Deborah May, Peter Williams

October 2001 PVG '01: Proceedings of the IEEE 2001 symposium on parallel and large-data visualization and graphics

Publisher: IEEE Press

Full text available: [pdf\(188.70 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 10, Citation Count: 1

This paper discusses our efforts to improve the performance of the high-accuracy (HIAC) volume rendering system, based on cell projection, which is used to display unstructured, scientific data sets for analysis. The parallelization of HIAC, using the ...

4 [Models and languages for parallel computation](#)



David B. Skillicorn, Domenico Talia

June 1998 ACM Computing Surveys (CSUR), Volume 30 Issue 2

Publisher: ACM

Full text available: [pdf\(298.05 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 93, Downloads (12 Months): 550, Citation Count: 46

We survey parallel programming models and languages using six criteria to assess their suitability for realistic portable parallel programming. We argue that an ideal model should be easy to program, should have a software development methodology, should ...

Keywords: general-purpose parallel computation, logic programming languages, object-oriented languages, parallel programming languages, parallel programming models, software development methods, taxonomy


5 [Parallelizing dynamic information flow tracking](#)



Olatunji Ruwase, Phillip B. Gibbons, Todd C. Mowry, Vijaya Ramachandran, Shimin Chen, Michael Kozuch, Michael Ryan

June 1998 SPAA '08: Proceedings of the twentieth annual symposium on Parallelism in algorithms and architectures

Publisher: ACM

Full text available:  [pdf\(519.21 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 12, Citation Count: 0

Dynamic information flow tracking (DIFT) is an important tool for detecting common security attacks and memory bugs. A DIFT tool tracks the flow of information through a monitored program's registers and memory locations as the program executes, detecting ...

Keywords: dynamic information flow tracking (dift), log-based monitoring, parallel algorithm, program monitoring, taint analysis



6 [Computing curricula 2001](#)



CORPORATE The Joint Task Force on Computing Curricula

September 2001 Journal on Educational Resources in Computing (JERIC), Volume 1 Issue 3es


Publisher: ACM

Full text available:  [pdf\(613.63 KB\)](#)  [html\(2.78 KB\)](#)


Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 221, Downloads (12 Months): 1779, Citation Count: 22

7 [Using value prediction to increase the power of speculative execution hardware](#)

 Freddy Gabbay, Avi Mendelson
August 1998 ACM Transactions on Computer Systems (TOCS), Volume 16 Issue 3

Publisher: ACM


Full text available:  [pdf\(289.77 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 68, Citation Count: 8

This article presents an experimental and analytical study of value prediction and its impact on speculative execution in superscalar microprocessors. Value prediction is a new paradigm that suggests predicting outcome values of operations (at run-time ...

Keyw ords: speculative execution, stride value prediction, value prediction

8 [Global ID, trusted systems, and communications markets](#)


 Jonathan Weinberg
April 2000 CFP '00: Proceedings of the tenth conference on Computers, freedom and privacy: challenging the assumptions

Publisher: ACM


Full text available:  [pdf\(72.20 KB\)](#) Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 15, Citation Count: 0

9 [Understanding the backward slices of performance degrading instructions](#)

 Craig B. Zilles, Gurindar S. Sohi
June 2000 ISCA '00: Proceedings of the 27th annual international symposium on Computer architecture

Publisher: ACM

Full text available:  [pdf\(128.47 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 30, Citation Count: 28

For many applications, branch mispredictions and cache misses limit a processor's performance to a level well below its peak instruction throughput. A small fraction of static instructions, whose behavior cannot be anticipated using current branch ...


10 Extended ephemeral logging: log storage management for applications with long lived transactions



John S. Keen, William J. Dally

March 1997 ACM Transactions on Database Systems (TODS), Volume 22 Issue 1

Publisher: ACM

Full text available:  [pdf\(566.34 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 60, Citation Count: 0

Keyw ords: OLTP, disk management, logging, long transactions

11 Concurrency and distribution in object-oriented programming



Jean-Pierre Briot, Rachid Guerraoui, Klaus-Peter Lohr

September 1998 ACM Computing Surveys (CSUR), Volume 30 Issue 3

Publisher: ACM

Full text available:  [pdf\(289.34 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 34, Downloads (12 Months): 349, Citation Count: 17

This paper aims at discussing and classifying the various ways in which the object paradigm is used in concurrent and distributed contexts. We distinguish among the library approach, the integrative approach, and the ...

Keyw ords: concurrency, distribution, integration, libraries, message passing, object, reflection


12 Ace: a language for parallel programming with customizable protocols



Mukund Raghavachari, Anne Rogers

August 1999 ACM Transactions on Computer Systems (TOCS), Volume 17 Issue 3

Publisher: ACM

Full text available:  [pdf\(297.50 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 35, Citation Count: 0

Customizing the protocols that manage accesses to different data structures within an application can improve the performance of software shared-memory programs substantially. Existing systems for using customizable protocols are hard to use directly ...

Keyw ords: parallel processing

13 Ethnographic data for product development: a collaborative process



Scott Lewis, Michael Mateas, Susan Palmiter, Gene Lynch

December 1996 interactions, Volume 3 Issue 6

Publisher: ACM

Full text available:  pdf(576.41 KB)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 67, Citation Count: 7


14 Understanding the backward slices of performance degrading instructions



Craig B. Zilles, Gurindar S. Sohi

May 2000 ACM SIGARCH Computer Architecture News, Volume 28 Issue 2

Publisher: ACM

Full text available:  pdf(128.47 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 30, Citation Count: 28

For many applications, branch mispredictions and cache misses limit a processor's performance to a level well below its peak instruction throughput. A small fraction of static instructions, whose behavior cannot be anticipated using current branch ...


15 Intellectual property rights and the global information economy



Pamela Samuelson

January 1996 Communications of the ACM, Volume 39 Issue 1

Publisher: ACM

Full text available:  pdf(234.41 KB)

Additional Information: [full citation](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 137, Citation Count: 0


16 [Programming languages and systems for prototyping concurrent applications](#)



Wilhelm Hasselbring

March 2000 ACM Computing Surveys (CSUR), Volume 32 Issue 1

Publisher: ACM

Full text available:  [pdf\(559.78 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 39, Downloads (12 Months): 356, Citation Count: 3

Concurrent programming is conceptually harder to undertake and to understand than sequential programming, because a programmer has to manage the coexistence and coordination of multiple concurrent activities. To alleviate this task several high-level ...

Keyw ords: concurrency, distribution, parallelism, rapid prototyping, very high-level languages


17 [Developing services for open eprint archives: globalisation, integration and the impact of links](#)



Steve Hitchcock, Les Carr, Zhuoan Jiao, Donna Bergmark, Wendy Hall, Carl Lagoze, Stevan Harnad

June DL '00: Proceedings of the fifth ACM conference on Digital libraries 2000

Publisher: ACM

Full text available:  [pdf\(174.62 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 46, Citation Count: 6

The rapid growth of scholarly information resources available in electronic form and their organisation by digital libraries is proving fertile ground for the development of sophisticated new services, of which citation linking will be one indispensable ...

Keyw ords: Open Archives, digital library information architectures, distributed collections, electronic publishing, eprint archives, reference linking

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